

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1.-24. (Cancelled)

25. (Currently Amended) A computer readable medium comprising:

computer executable instructions for generating instances of a document based on a template structured according to a schema, the schema comprising:

a template root element, wherein the template root element comprises:[:;]

a template information element containing descriptive information about the template root element, wherein the descriptive information includes at least one of a title, free-form text, and a document type element to support a type element from another schema or document type definition;

a data table element configured to contain data that is used to transform an abstract instance of a document template to a concrete instance of a document template, and to determine the number of instances of a document template to be replicated, and to assign a data value to a data target; and

an instances element containing at least one instance element, the instances element describing how an individual instance of the document is constructed, the instance element including an instance data table element and at least one continuations element;

wherein the continuations element is configured to define continuation handling for data included in the data table element, the instance data table element, or both, and configured to include one or more continuation elements and one or more overflow default elements; and

wherein at least one continuation element is configured to process overflows by placing data on more than one page.

26. (Previously Presented) A computer readable medium as claimed in claim 25, wherein the instance element is configurable to include an instance data table element, a pages element, an overlays element, and a continuations element.

27. (Previously Presented) A computer readable medium as claimed in claim 26, wherein the pages element is configurable to include a page element and the page element is configurable to include an overlays element and a composition element.

28. (Previously Presented) A computer readable medium as claimed in claim 26, wherein the overlays element is configurable to include one or more overlay elements.

29. (Previously Presented) A computer readable medium as claimed in claim 26, wherein the continuations element is configurable to include one or more continuation elements and one or more overflow default elements.

30. (Previously Presented) A computer readable medium as claimed in claim 26, wherein the data element is configurable to include one or more datum elements.

31. – 33. (Cancelled)

34. (Currently Amended) A computer readable medium comprising:

computer executable instructions ~~for generating that are executed by a processor and~~
configured to generate instances of a document based on a template defining a data structure for the document, the data structure comprising:

a template root element that comprises: [[:]]

a template information element containing descriptive information about the template root element, wherein the descriptive information includes at least one of a title, free-form text, and a document type element to support a type element from another schema or document type definition;

a data table element configured to contain data that is used to transform an abstract instance of a document template to a concrete instance of a document template, to determine the number of instances of a document template to be replicated, and to assign a data value to a data target; and

an instances element including at least one instance element configured to describe how a document is constructed, the instance element including an instance data table element and at least one continuations element; [[,]]

wherein the continuations element is configured to define defining continuation handling for data included in the data table element, the instance data table element, or both, and configured to include one or more continuation elements and one or more overflow default elements; and

wherein at least one continuation element is configured to process overflows by placing data on more than one page.

35. (Previously Presented) A computer readable medium as claimed in claim 34, wherein the template information element includes descriptive information about the template root element.

36. (Previously Presented) A computer readable medium as claimed in claim 35, wherein the descriptive information includes a title element that contains a title for the document at hand, a description element that is a container for free-form text about the template root element, a help text element, which is a container for free-form information that may be useful to a consumer of the document, and a document type element that is provided to support a type element from other schemas or DTDs.

37. (Previously Presented) A computer readable medium as claimed in claim 34, wherein the template information element includes a print constraints element which is a container for special values that may be needed or used by a printing environment.

38. (Previously Presented) A computer readable medium as claimed in claim 34, wherein the data table element includes data values to be used in a specific instance of a template.

39. (Previously Presented) A computer readable medium as claimed in claim 38, wherein the data table element defines a structure of data values that can be accessed by name, or by a combination of name and one or more indices.

40. (Cancelled)

41. (Previously Presented) A computer readable medium as claimed in claim 34, wherein each instance element is configurable to include a pages element, and an overlays element.
42. (Previously Presented) A computer readable medium as claimed in claim 41, wherein each pages element is configurable to include one or more page elements.
43. (Previously Presented) A computer readable medium as claimed in claim 42, wherein each page element is configurable to include an overlays element and one or more composition elements.
44. (Previously Presented) A computer readable medium as claimed in claim 43, wherein each overlays element may include one or more overlay elements.
45. (Previously Presented) A computer readable medium as claimed in claim 44, wherein each continuations element is configurable to include one or more continuation elements and one or more overflow default elements.
46. (Previously Presented) A computer readable medium as claimed in claim 45, wherein continuation elements are configured to be used by a processor to process overflows.
47. – 51. (Cancelled)
52. (Currently Amended) A computer system comprising a processor, a memory, and a computer readable medium, the computer readable medium comprising:
- computer executable instructions ~~for generating~~ configured to generate instances of a document based on a template structured according to a schema, the schema comprising:
- a template root element comprising:
- a template information element containing descriptive information about the template root element, wherein the descriptive information includes at least one of a title, free-form text, and a document type element to support a type element from another schema or document type definition;
- a data table element configured to contain data that is used to transform an abstract instance of a document template to a concrete instance of a document template,

to determine the number of instances of a document template to be replicated, and to assign a data value to a data target; and

an instances element describing how an individual instance of the document is constructed and containing at least one instance element, the instance element including an instance data table element and at least one continuations element;

wherein the continuations element is configured to define defining continuation handling for data included in the data table element, the instance data table element, or both, and configured to include one or more continuation elements and one or more overflow default elements; and

wherein at least one continuation element is configured to process overflows by placing data on more than one page.

53. (New) A computer readable medium comprising:

computer executable instructions that generate instances of a document based on a template structured according to a schema, the schema comprising:

a template root element, wherein the template root element comprises:

a template information element containing descriptive information about the template root element, wherein the descriptive information includes at least one of a title, free-form text, and a document type element to support a type element from another schema or document type definition;

a data table element configured to contain data that is used to transform an abstract instance of a document template to a concrete instance of a document template, to determine the number of instances of a document template to be replicated, and to assign a data value to a data target; and

an instances element containing at least one instance element, the instances element describing how an individual instance of the document is constructed, the instance element including an instance data table element and at least one continuations

element;

wherein the continuations element is configured to define continuation handling for data included in the data table element, the instance data table element, or both, and configured to include one or more continuation elements and one or more overflow default elements; and

wherein at least one continuation element is configured to process overflows by placing data on more than one page.